Curriculum Plan: B. Sc. (Hons) Mathematics II (Semester III) Analysis- II

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Marks Distribution	Theory		75 Marks
	Internal Assessment	Assignments 10 Marks	
		Class- Test 10 Marks	
		Presentation 5 Marks	
Classes Assigned	**Lectures**	3 per week	

Reference	[1]	**R. G. Bartle & D.R. Sherbert,** Introduction to Real Analysis, John Wiley & Sons (2003)
	[2]	**K. A. Ross,** Elementary Analysis: The Theory of Calculus, Springer (2004).

Section	Week	Topics
Section 1	**1st week,** *16-21 AUG*	Limits of functions (epsilon-delta approach),
	2nd week, 23-28 AUG	Sequential criterion for limits, divergence criteria
	3rd week, 31 AUG-4 SEP	Limit theorems, one sided limits
	4th week, 6-11 SEP	Infinite limits & limits at infinity
	6th week, 20-25 SEP	Problem discussion
Section 2	**7th week,** 27 SEP-1 OCT	Continuous functions
	8th week, 4-9 OCT	sequential criterion for continuity & discontinuity
	9th week, 11-16 0CT	sequential criterion for discontinuity
	10th week., 18-23 OCT	Problems on continuity & discontinuity
	11th week, 25-30 OCT	Algebra of continuous functions
	12th week, 1-6 NOV	Continuous functions on an interval
	13th week, 8-13 NOV	intermediate value theorem
	14th week, 15-20 NOV	location of roots theorem
	15th week, 22-27 NOV	Preservation of intervals theorem
	16th week, 29-7 DEC	Uniform continuity